Application No.: 09/629,810 2 Docket No.: 07875/000H358-US0

AMENDMENTS TO THE CLAIMS

Listing of Claims

1. (canceled)

- (previously amended) The timing device according to claim 10,
 wherein the at least one sensor unit for scanning the first group and the at least one
 higher-order group of code markings consists of a single sensor-emitter-unit.
 - 3 and 4 (canceled)
- 5. (currently amended) The timing device according to claim 10, wherein in the sensor unit a two-channel evaluation of the optical signals is performed.

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- 6. (canceled)
- 7. (currently amended) The timing device according to claim 10, wherein
 the at least ene code track and the groups of code markings have predefined
 differences between their three different optical density levels differ from each other
 by predefined amounts of optical density.
- 8. (previously amended) The timing device according to claim 7, wherein

Application No.: 09/629,810 3 Docket No.: 07875/000H358-US0

the at least three different optical density levels correspond to at least three different

gray levels which can span a range between light-blocking and almost complete

4 transparency.

- 9. (currently amended) The timing device according to claim 8, wherein the carrier of the timing device is made of a reflecting material and the <u>at least three</u> different optical density levels are constituted by groups of code markings have different degrees of reflectivity relative to the carrier and relative to each other.
 - first group of code markings and at least one higher-order group of code markings disposed in at least one code track, said first and at least one higher-order group of code markings being scanned by at least one sensor unit to produce signals, said at least one sensor unit comprising a light source and a photo-transistor, wherein the code markings of the at least one higher-order group everlap with are superimposed on the code markings of the first group in the at least one code track, wherein the at least one code track has a basic optical density level, wherein the code markings of the first group are bars of equal width and equally spaced from one another, whereas the code markings of the at least one higher-order group are distributed over the code track with an arbitrary spacing and form segments on the timing device are formed by step changes from a first optical density level to at least a second optical density level of said bars, said step changes serving for controlling different functions, wherein the

Application No.: 09/629,810 4 Docket No.: 07875/000H358-US0

basic, the first, and the at least second optical density levels are different the at least one one code track, the first group of code markings and the at least one higher-order group of code markings have different optical density levels in comparison to each other, so that there are at least three different optical density levels with a detectable gradation of optical density, and wherein the detectable gradation is used for generating control or position signals.

11. (previously amended) The timing device of claim 10, wherein said different functions include at least one of the functions of controlling a start position, controlling an end position, calibrating the timing device, and determining an absolute position of the timing device.

with a carrier having a first group of code markings and at least one higher-order group of code markings disposed in at least one code track, with the <u>first and at least one higher-order group of code markings</u> being scanned by at least one sensor unit for producing a <u>sensor</u> signal, said at least one sensor unit comprising a light source and a photo-transistor, wherein the code markings of the at least one higher-order group <u>overlap with are superimposed on</u> the code markings of the first group in the at least one code track, <u>wherein the at least one code track has a basic optical density level</u>, wherein the code markings of the first group are <u>bars of equal width and</u> spaced at constant intervals from one another, whereas the code markings of the at least one

higher-order group are distributed over the code track with an arbitrary spacing and form segments on the timing device are formed by step changes from a first optical density level to at least a second optical density level of said bars, said step changes serving for controlling different functions, and wherein the code markings of the at least one higher-order group are used for at least one of the purposes of controlling a start position, controlling an end position, calibrating the timing device, and determining an absolute position of the timing device; said positioning device further comprising a signal processing device that converts the sensor signal into a control signal and is connected after the sensor unit, wherein the basic, the first, and the at least second optical density levels are different the at least one code track, the first group of code markings and the at least one higher-order-group of code markings have different optical density-levels in comparison to each other, so that there are at least three different optical density levels with a detectable gradation of optical density, and wherein the detectable gradation is used for generating control or position signals.

- 13. (previously amended) The timing device according to claim 10, wherein the light source is an LED.
 - 14. (canceled)

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15. (currently amended) The timing device according to claim 10,

Application No.: 09/629,810 6 Docket No.: 07875/000H358-US0

wherein in the sensor unit a multi-channel evaluation of the optical signals is

3 performed.